



High Efficiency Monocrystalline Photovoltaic Module

Overview

- High efficiency solar cells with high module conversion efficiency and long term output reliability. Virtually maintenance free.
- Rigorous quality control to meet the highest international standards.
- High transmittance, low iron tempered glass with enhanced stiffness and impact resistance.
- Unique frame design with strong mechanical strength for up to 50 lbs/ft² wind load and snow load withstanding and easy installation.
- Advanced encapsulation material with multilayer sheet lamination to provide long-life and enhanced cell performance.
- Outstanding electrical performance under high temperature and weak light environments.
- Built in blocking diodes prevent reverse current flow.

Applications

- Any off-grid solar power stations.

Warranty

- 5 year limited product warranty on materials and workmanship.
- 25 year warranty on >80% power output and 10 year warranty on >90% power output.
- Refer to warranty document for detailed warranty information.

Certifications

CE IEC61215 IEC61730



Mechanical Specifications (note: module dimensions may have +/- 1% variance)

Characteristic	Details
Cell Size	156mm x 156mm (6.14" x 6.14")
Module Dimension (L x W x T)	1474mm x 660mm x 35mm (58.0" x 26.0" x 1.38")
No. of Cells	4 x 9 = 36
Weight	12 kg (26.4 lbs)
Cable Length	900mm (35.4") for positive (+) and negative (-)
Type of Connector	MC-IV comparable
Junction Box	IP65 Rated
No. of Holes in Frame	8 installation holes, 8 drainage holes, 2 grounding holes

MODEL: GS-S-160-Fab8

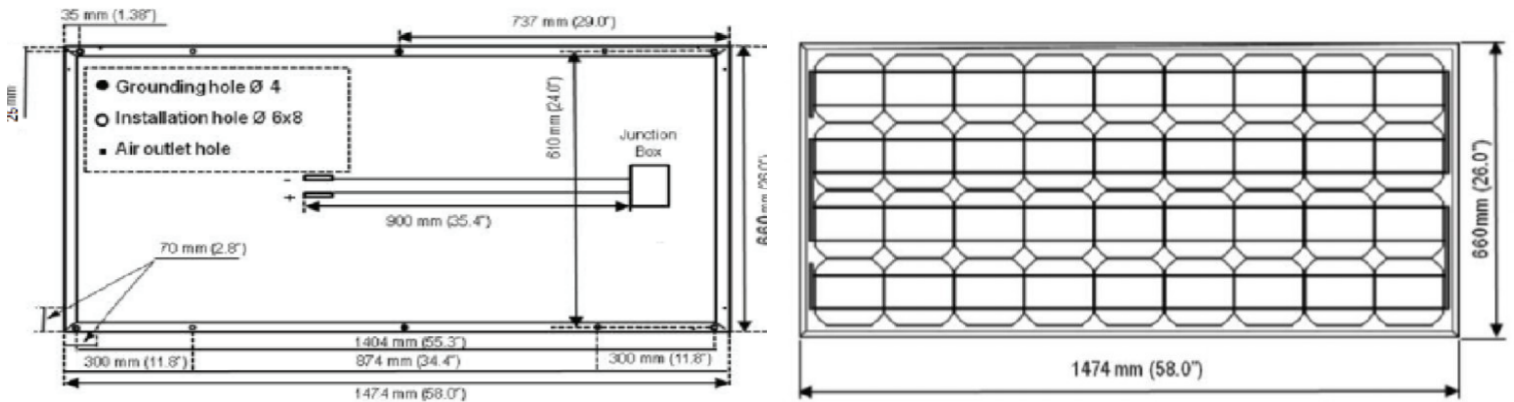
Electrical Specifications

(STC* = 25 °C, 1000W/m² Irradiance and AM=1.5)

Model	GS-S-160-Fab8
Max System Voltage (IEC/UL)	1000V/600V
Maximum Power P _{max}	160 W (-5%, +5%)
Cell Type	Mono silicon
Voltage at Maximum Power Point V _{mpp}	18.5 V
Current at Maximum Power Point I _{mpp}	8.65 A
Open Circuit Voltage V _{oc}	22.2 V
Short Circuit Current I _{sc}	9.46 A
Module Efficiency (%)	16.4%
Temperature Coefficient of V _{oc}	-0.38% /°C
Temperature Coefficient of I _{sc}	+0.05% /°C
Temperature Coefficient of P _{max}	-0.50% /°C

*Standard Test Conditions

Physical Specifications mm



Other Performance Data

Power Tolerance	Operating Temperature	Max Series Fuse Rating	NOCT*
-5%, +5%	-40 °C to +85 °C	15A	45 °C +/- 2 °C

*Normal Operating Cell Temperature

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